

Serial No. 10/823,486
Art Unit 3744

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AMENDMENTS TO THE SPECIFICATION:

Please amend the paragraph beginning at page 5, line 1 of the specification as follows:

According to one embodiment of the present invention, the graphical thermostat and sensor 10 is sized such as it will mount on a standard 2-inch by 4-inch electrical box for easy installation. The graphical thermostat and sensor 10 preferably includes a low-profile case or enclosure such that it will not protrude far from a wall upon which it is mounted. The graphical thermostat and sensor 10 generally includes a display 12, a control knob 14 and a plurality of buttons 16. The display 12, which provides an easy-to-read graphical display and user interface, is preferably an LCD display, which may be a back-lit LCD screen. According to one aspect of the invention, the display 12 may be a touch-sensitive display that operates as a user input device. The display 12 may alternatively be an active matrix TFT display, plasma screen, or like screen as well known to those of skill in the art.

Please amend the paragraph beginning at page 7, line 1 of the specification as follows:

Referring again to FIG. 3, the graphical thermostat and sensor 10 generally includes a processor 40, operating system 45, memory 50, input/output devices 60, input/output interfaces 65, zone sensor 70, communications interface(s) 75, database 80 and bus 30. The bus 30 includes data and address lines to facilitate communication between the processor 40, operating system 45 and the other components within the graphical thermostat and sensor 10, including the graphical thermostat module 55, the input/output devices 60, input/output interfaces 65, and the database 80. The processor 40 executes the operating system 45, and together the processor 40 and operating system 45 are operable to execute functions implemented by the graphical thermostat and sensor 10, including software applications stored in the memory 50, as is well known in the art. Specifically, to implement the methods described in detail herein the processor 40 and operating system 45 are operable to execute the graphical thermostat module 55 stored within the memory 50.

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Please amend the paragraph beginning at page 7, line 14 of the specification as follows:

It will be appreciated that the memory 50 in which the graphical thermostat module 55 resides may include random access memory, firmware, read-only memory, a hard disk drive, a floppy disk drive, a CD Rom drive, or optical disk drive, for storing information on various computer-readable media, such as a hard disk, a removable magnetic disk, or a CD-ROM disk. Generally, the graphical thermostat module 55 receives information input, stored or received by the graphical thermostat and sensor [[15]] 10, including user input data [[25]] from input/output devices 60 and/or input/output interfaces 65, zone sensor 70 data, programming data 85, default data 90, and/or historical data 95. Using this information the graphical thermostat module 55 effects control of the HVAC system to which it is attached via the communication interface(s) 75, and generates the graphical user interfaces shown in the illustrative interfaces of FIGS. 4 through 16. These interfaces, as described in detail below, permit a user to graphically control heating and cooling using daily, weekly, monthly and customized HVAC start/stop times and to quickly ascertain if the HVAC system is working properly.

Please amend the paragraph beginning at page 8, line 12 of the specification as follows:

The database 80 of the graphical thermostat and sensor 10, which is connected to the bus 30 by an appropriate interface, may include random access memory, read-only memory, a hard disk drive, a floppy disk drive, a CD Rom drive, or optical disk drive, for storing information on various computer-readable media, such as a hard disk, a removable magnetic disk, or a CD-ROM disk. In general, the purpose of the database 80 is to provide non-volatile storage to the graphical thermostat and sensor 10. As shown in FIG. 3, the database includes one or more tables, segments or files within the database 80, including programming data 85, default data 90, and historical data [[30]] 95, which is used by the graphical thermostat and sensor 10, and more particularly, the graphical thermostat module 55, to execute the functions described herein. More specifically, the programming data 85 includes user-input start and stop times, temperatures, days, weeks and customized schedules that the user may input using one or more of the graphical user interfaces described in detail below with reference to FIGS. 4-16.